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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,291	07/26/2006	Ferdi Schuth	100716-62 KGB	7658
27387 LONDA, BRUG	7590 04/26/201 CE S.	0	EXAMINER	
NORRIS MCLAUGHLIN & MARCUS, PA 875 THIRD AVE, 8TH FLOOR			BUI, DUNG H	
875 THIRD AV NEW YORK, N			ART UNIT	PAPER NUMBER
			1797	
			MAIL DATE	DELIVERY MODE
			04/26/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
Office Action Summany	10/564,291	SCHUTH ET AL.					
Office Action Summary	Examiner	Art Unit					
	DUNG BUI	1797					
The MAILING DATE of this communica Period for Reply	tion appears on the cover shee	t with the correspondence ac	idress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed of	nn						
	☐ This action is non-final.						
<i>;</i> —	·						
) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
closed in accordance with the practice	under Ex parte Quayre, 1000	O.D. 11, 400 O.G. 210.					
Disposition of Claims							
4) Claim(s) <u>1,4,5,7 and 9</u> is/are pending ir	ո the application.						
4a) Of the above claim(s) is/are	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) <u>1, 4-5, 7, and 9</u> is/are rejected.							
7) Claim(s) is/are objected to.	·_ · · · ·						
8) Claim(s) are subject to restrictio	n and/or election requirement	•					
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	-948) Paper 5) Notice	iew Summary (PTO-413) No(s)/Mail Date e of Informal Patent Application					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1, 4-5, 7, and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heung (US 6432379) in view of Ovshinsky (US 6478844) and Rendina (US 20030190501).

The abstract, figure 1, and column 4, line 11-29, Heung discloses material with the same structure as that recited in claims 1, 4-5, 7, and 9.

As regarding claims 1 and 5, Heung does not disclose the hydrogen storage component selected from (a) alkali alanate, (b) a mixture of aluminum metal with alkali metal and/or alkali metal hydride, (c) magnesium hydride, and (d) mixtures of any of (a) – (c), wherein the hydrogen storage component is encapsulated in a porous matrix. It would have been obvious to one having ordinary skill in the art at the time of the

invention was made to have the hydrogen storage component selected from (a) alkali alanate, (b) a mixture of aluminum metal with alkali metal and/or alkali metal hydride, (c) magnesium hydride, and (d) mixtures of any of (a) – (c), wherein the hydrogen storage component is encapsulated in a porous matrix, since it is well known in the art as taught in US 6478844 (Ovshinsky – column 4, lines 25-43), US 6328821, and US 20030162059 that the substitution of one hydride to another for the same purpose.

Also regarding claims 1 and 5, Heung as modified does not disclose a porous matrix select from the group consisting of carbon aerogels, carbons xerogels, and carbon and meso-structured carbons. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to provide a porous matrix select from the group consisting of carbon aerogels, carbons xerogels, and carbon and meso-structured carbons, since it was known in the art as showed in Rendina (US 20030190501 – [0011]).

Response to Arguments

4. Applicant's arguments with respect to claims 1, 4-5, 7, and 9 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DUNG BUI whose telephone number is (571)270-7077. The examiner can normally be reached on Mon. - Thurs., 7:30 a.m.-5 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Marcheschi can be reached on (571)272-1374. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Jason M. Greene/ /D. B./
Primary Examiner, Art Unit 1797 Examiner, Art Unit 1797